

The Commissioner is hereby authorized to charge any deficiency and/or additional fees, which may be required to Account Number 11-0224.

Applicants further respectfully request that this response be accepted as a bona fide effort to meet any potential response requirements outstanding and due in the above captioned matter.

Please amend the application as follows:

IN CLAIMS:

1. (currently amended) An electrical device with the casing (1,20,44,52) of the ignition protection kind flame proof enclosure, wherein parts, which can ignite an atmosphere capable of explosion, are disposed in the enclosure, wherein the enclosure withstands a pressure generated upon explosion of a mixture capable of explosion in an interior of the enclosure and wherein the enclosure prevents a transfer of the explosion to an atmosphere capable of explosion and surrounding the enclosure, comprising:

two casing parts (2,3,23,24, 45, 56) having wall parts (5,6,21, 22, 48, 55), wherein the wall parts (5,6,21, 22, 48, 55) are disposed toward each other;

a profile clamp (4,29, 46, 53) formed shape matching to the casing parts (2,3,23,24, 45, 56) and connecting the casing parts (2,3,23,24, 45, 56) against the force of an explosion like internal pressure of the casing;

a slot (7, 28) safe against ignition punch, furnished between the wall parts (5,6,21, 22, 48, 55) and terminated by the profile clamp (4,29, 46, 53).

2. (currently amended) The electrical device according to claim 1, wherein the profile clamp (4,29, 46, 53) exhibits a cross-section of about a C-shape and is furnished by a single part structure.

3. (currently amended) The electrical device according to claim 1, wherein the profile clamp (4,29, 46, 53) exhibits a base web (8,30) and two side webs (9,10,31, 32, 47, 54), wherein the

one side web (9, 32, 54) ~~corresponds to~~ structurally matches the one casing part (2,24, 56) and wherein the second side web (10,31, 47) ~~corresponds to~~ structurally matches the second casing part (3,23, 45).

4. (previously presented) The electrical device according to claim 3, wherein the side webs (9,10,31, 32, 47, 54) of the profile clamp (4,29, 46, 53) disposed at a distance relative to each other are disposed at one and the same side of the base web (8,30) having a rectangular cross-section under an angle, and essentially are disposed at a right angle relative to the rectangle base web (8,30).

5. (previously presented) The electrical device according to claim 3, wherein an ignition punch safe supplemental slot (17, 40, 51, 59) is formed between a stop face (15,38,49,57) of the side

webs (9,10,31, 32, 47, 54) of the profile clamp (4,29, 46, 53) and a support face (16,39,50,58) of the casing parts (2,3,23, 24, 45, 56).

6. (previously presented) The electrical device according to claim 5, wherein the stop face (15,38) of the side webs (9,10,31, 32) of the profile clamp (4,29), the support face (16,39), the casing parts (2,3,23, 24) and the ignition punch safe supplemental slot (17, 40) are disposed parallel to the ignition punch safe slot (7, 28).

7. (original) The electric device according to claim 5, wherein the stop face (57) of the side web (54) of the profile clamp (53) and the support face (58) of the casing part (56) as well as the ignition punch safe supplemental slot (59) are disposed inclined relative to the ignition punch safe slot (7, 28).

8. (previously presented) The electrical device according to claim 5 further comprising:

the ignition punch safe supplemental slot (17, 40, 59) disposed between the stop face (15,38,57) of the side web (9,10,31, 32, 54) and the support face (16,39,58) of the casing part (2,3,23, 24, 56) and being shorter than the ignition punch safe slot (7, 28) between the two casing parts (2,3,23, 24, 45).

9. (original) The electrical device according to claim 8, wherein the length of the ignition punch safe supplemental slot (51) between the stop face (49), the side web (47) and the support face (50) of casing part (45) is equal to or larger than the ignition punch safe slot (7) between the two casing parts (2, 45).

10. (currently amended) The electrical device according to claim 1, wherein at least one part of the profile clamp (4,29, 46, 53)

is supported in a recess of the casing part (2,23, 24) and matches the shape of the recess of the casing part (2,23,24).

11. (currently amended) An electrical device with the casing (1,20,44,52) of the ignition protection kind flame proof enclosure, wherein parts, which can ignite an atmosphere capable of explosion, are disposed in the enclosure, wherein the enclosure withstands a pressure generated upon explosion of a mixture capable of explosion in an interior of the enclosure and wherein the enclosure prevents a transfer of the explosion to an atmosphere capable of explosion and surrounding the enclosure, comprising:
two casing parts (2,3,23,24, 45, 56) having wall parts (5,6,21, 22, 48, 55), wherein the wall parts (5,6,21, 22, 48, 55) are disposed toward each other;
a profile clamp (4,29, 46, 53) formed shape matching to the casing parts (2,3,23,24, 45, 56) and connecting the casing parts (2,3,23,24,

45, 56) against the force of an explosion like internal pressure of the casing;

a slot (7, 28) safe against ignition punch furnished between the wall parts (5,6,21, 22, 48, 55) and the profile clamp (4,29, 46, 53); wherein a face (13,37) of a base web (8,30) of the profile clamp (4,29, 46, 53) together with an outer side (14,36) of at least one of the casing parts (2,23, 24, 56) forms a substantially common plane.

12. (original) The electrical device according to claim 1, wherein an inner face (11,33) of a base web (8,30) of the profile clamp (4,29, 46, 53) disposed toward the casing (1,20,44,52) is disposed parallel to a rest face (12,34) of the casing part (2,3,23, 24, 56).

13. (previously presented) The electrical device according to claim 1, wherein a distance is formed between an inner face (11,33) of a base web (8,30) of the profile clamp (4,29, 46, 53) and a rest face (12,34) of the casing parts (2,23, 24, 56), wherein the distance is less than one mm.

14. (currently amended) An electrical device with the casing (1,20,44,52) of the ignition protection kind flame proof enclosure, wherein parts, which can ignite an atmosphere capable of explosion, are disposed in the enclosure, wherein the enclosure withstands a pressure generated upon explosion of a mixture capable of explosion in an interior of the enclosure and wherein the enclosure prevents a transfer of the explosion to an atmosphere capable of explosion and surrounding the enclosure, comprising:

two casing parts (2,3,23,24, 45, 56) having wall parts (5,6,21, 22, 48, 55), wherein the wall parts (5,6,21, 22, 48, 55) are disposed toward each other;

a profile clamp (4,29, 46, 53) formed shape matching to the casing parts (2,3,23,24, 45, 56) and connecting the casing parts (2,3,23,24, 45, 56) against the force of an explosion like internal pressure of the casing;

a slot (7, 28) safe against ignition punch furnished between the wall parts (5,6,21, 22, 48, 55) and the profile clamp (4,29, 46, 53);

an additional wall (25) disposed between the two wall parts (23, 24) of the casing (20).

15. (previously presented) The electrical device according to claim 14 further comprising:

the ignition punch safe slot (28) formed between the wall part (21, 22) of the casing (20) and one side face (26,27) of the additional wall (25).

16. (original) The electrical device according to claim 14, wherein a front face (35) of the additional wall (25) borders at an inner face (33) of the profile clamp (29).

17. (previously presented) An electrical device with the casing (1,20,44,52) of the ignition protection kind flame proof enclosure , wherein parts, which can ignite an atmosphere capable of explosion, are disposed in the enclosure, wherein the enclosure withstands a pressure generated upon explosion of a mixture capable of explosion in an interior of the enclosure and wherein the

enclosure prevents a transfer of the explosion to an atmosphere capable of explosion and surrounding the enclosure, comprising:

two casing parts (2,3,23,24, 45, 56) having wall parts (5,6,21, 22, 48, 55), wherein the wall parts (5,6,21, 22, 48, 55) disposed toward each other;

a profile clamp (4,29, 46, 53) formed shape matching to the casing parts (2,3,23,24, 45, 56) and connecting the casing parts (2,3,23,24, 45, 56) against the force of an explosion like internal pressure of the casing;

a slot (7, 28) safe against ignition punch furnished between the wall parts (5,6,21, 22, 48, 55) and the profile clamp (4,29, 46, 53); wherein ends of two profile clamps (4,29, 46, 53) abut to each other in a casing corner region such that a planar or nonplanar ignition punch safe profile slot (43,60) is formed.

18. (currently amended) An electrical device with the casing (1,20,44,52) of the ignition protection kind flame proof enclosure, wherein parts, which can ignite an atmosphere capable of explosion, are disposed in the enclosure, wherein the enclosure withstands a pressure generated upon explosion of a mixture capable of explosion in an interior of the enclosure and wherein the enclosure prevents a transfer of the explosion to an atmosphere capable of explosion and surrounding the enclosure, comprising:
two casing parts (2,3,23,24, 45, 56) having wall parts (5,6,21, 22, 48, 55), wherein the wall parts (5,6,21, 22, 48, 55) are disposed toward each other;
a profile clamp (4,29, 46, 53) formed shape matching to the casing parts (2,3,23,24, 45, 56) and connecting the casing parts (2,3,23,24, 45, 56) against the force of an explosion like internal pressure of the casing;
a slot (7, 28) safe against ignition punch furnished between the wall parts (5,6,21, 22, 48, 55) and the profile clamp (4,29, 46, 53);

wherein a profile is formed at least one end of the profile clamp (4,29, 46, 53) and wherein at an end of a second profile clamp (4,29, 46, 53), in each case a profile is formed out of projections (41) and recesses (42), wherein the projections (41) of the one profile clamp (4,29, 46, 53) engage into the recesses (42) of the other profile clamp (4,29, 46, 53) and wherein an ignition punch safe profile slot (43) is formed between the projections (41) and the recesses (42).

19. (previously presented) The electrical device according to claim 18, wherein the projections (41) and the recesses (42) of the profile clamp (4,29, 46, 53) are formed as teeth or, respectively, tooth gaps and are of triangular shape.

20. (original) The electrical device according to claim 1, wherein an ignition punch safe profile slot (43) is formed as a 45 degrees mitre joint in a corner region of the profile clamp.

21. (currently amended) An electrical device with the casing (1,20,44,52) of the ignition protection kind flame proof enclosure, wherein parts, which can ignite an atmosphere capable of explosion, are disposed in the enclosure, wherein the enclosure withstands a pressure generated upon explosion of a mixture capable of explosion in an interior of the enclosure and wherein the enclosure prevents a transfer of the explosion to an atmosphere capable of explosion and surrounding the enclosure, comprising:
two casing parts (2,3,23,24, 45, 56) having wall parts (5,6,21, 22, 48, 55), wherein the wall parts (5,6,21, 22, 48, 55) are disposed toward each other;

a profile clamp (4,29, 46, 53) formed shape matching to the casing parts (2,3,23,24, 45, 56) and connecting the casing parts (2,3,23,24, 45, 56) against the force of an explosion like internal pressure of the casing;

a slot (7, 28) safe against ignition punch furnished between the wall parts (5,6,21, 22, 48, 55) and the profile clamp (4,29, 46, 53); wherein a corner region of the profile clamp is formed polygonal and exhibits at least two ignition punch safe profile slots (43).

22. (previously presented) The electrical device according to claim 3, wherein the profile clamp (4,29, 46, 53) with the base web (8,30) and the side webs (9,10,31, 32, 47, 54) are produced as a single piece of a uniform material.

23. (original) The electrical device according to claim 1, wherein the profile clamp (4,29, 46, 53) is fixed non-losable at least one of the casing parts (2,3,23, 24, 45, 56) and is formed as a single integral part.

24. (new) An electrical device with the casing (1,20,44,52) of the ignition protection kind flame proof enclosure, comprising:
two casing parts (2,3,23,24, 45, 56) having wall parts (5,6,21, 22, 48, 55), wherein the wall parts (5,6,21, 22, 48, 55) are disposed toward each other;
a slot (7, 28) safe against ignition punch furnished between the wall parts (5,6,21, 22, 48, 55);
a profile clamp (4,29, 46, 53) formed shape matching to the casing parts (2,3,23,24, 45, 56) and connecting the casing parts (2,3,23,24, 45, 56) against the force of an explosion like internal pressure of the casing, wherein the profile clamp (4,29, 46, 53) exhibits a base

web (8,30) and two side webs (9,10,31, 32, 47, 54) at one and the same side of the profile clamp (4,29, 46, 53); and an ignition punch safe supplemental slot (17, 40, 51, 59) formed between a stop face (15,38,49,57) of the side webs (9,10,31, 32, 47, 54) of the profile clamp (4,29, 46, 53) and a support face (16,39,50,58) of the casing parts (2,3,23, 24, 45, 56).

25. (twice amended) The electrical device according to claim 24, wherein the base web (8,30) is of rectangular shape, and wherein the side webs (9,10,31, 32, 47, 54) of the profile clamp (4,29, 46, 53) are disposed angle forming relative to the base web (8,30), and essentially are disposed at a right angle relative to the rectangular base web (8,30).

26. (new) The electrical device according to claim 24, wherein at least one part of the profile clamp (4,29, 46, 53) is supported in a recess of the casing part (2,23, 24).

27. (new) An electrical device with the casing (1,20,44,52) of the ignition protection kind flame proof enclosure comprising:
two casing parts (2,3,23,24, 45, 56) having wall parts (5,6,21, 22, 48, 55), wherein the wall parts (5,6,21, 22, 48, 55) disposed toward each other;
a profile clamp (4,29, 46, 53) formed shape matching to the casing parts (2,3,23,24, 45, 56) and connecting the casing parts (2,3,23,24, 45, 56) against the force of an explosion like internal pressure of the casing;
a slot (7, 28) safe against ignition punch furnished between the wall parts (5,6,21, 22, 48, 55) and the profile clamp (4,29, 46, 53);

wherein ends of two profile clamps (4,29, 46, 53) abut to each other in a casing corner region such that a planar or nonplanar ignition punch safe profile slot (43,60) is formed.

28. (new) The electrical device according to claim 1, wherein the profile clamp (4,29, 46, 53) exhibits a cross-section of about an undivided C-shape and wherein the profile clamp (4,29, 46, 53) is a single integral structure.

29. (new) The electrical device according to claim 1, wherein the profile clamp (4,29, 46, 53) is engageable and disengageable relative to the two casing parts (2,3,23,24, 45, 56) having wall parts (5,6,21, 22, 48, 55) in a direction perpendicular to a C-shaped cross-section of the profile clamp (4,29, 46, 53).